



The Testcenter facility 'LoRa® Test Lab' within IMST GmbH is recognized by the LoRa™ Alliance for testing in accordance to the LoRaWAN™ Specification V1.0.2

---

# Report for Certification by Similarity according to LoRaWAN™ V1.0.2

for the Device

**“CMi4110Ext“**

for the Customer

**“Elvaco AB“**

Jens Lerner  
Yavuz Turan

23<sup>th</sup> June, 2021

## Administrative Summary

Location: IMST GmbH, Test Centre, Kamp-Lintfort, Germany

Responsible Test Engineer: Yavuz Turan, Jens Lerner

Subject: Test of requirements for Certification by Similarity according to LoRaWAN™ Specification V1.0.2

Company and Contact Information:

Elvaco AB

Andréas Johansson

Kabelgatan 2T

43437 Kungsbacka

Sweden

Checked Device: CMi4110Ext

Hardware version: 2B

Firmware version: 1.0.7

Type and Version of used Stack: Stackforce, 4.4 Version

Original End-device identifier: CMi4110Int

LoRa Device Class: A

LoRaWAN Specification version: V1.0.2

Certification requirements: LoRa End Device Certification by Similarity V1.1

Frequency band(s): 868 MHz

Type of Certification by Similarity:

Case 3: Certification of an end-device variant from a certified end-device

Variant device differences to the referenced certified device:

- Same LoRa transceiver
- Same LoRa protocol SW version
- Same MCU Core
- Same Clock design and implementation


Brief description of the differences between the primary and the variant device


Using external antenna instead of internal antenna

Date: 23<sup>rd</sup> June, 2021

The Test Report, No. 6210470 has the following conclusion:

**The device fulfils the requirements.**

Responsibility:   
Yavuz Turan  
Test Engineer

Approved:   
Jens Lerner  
Quality Engineer

Copyright Notice & Disclaimer: No part of this test report may be reproduced without written permission of IMST GmbH. The test results herein only refer to the tested sample. IMST GmbH cannot be made responsible for any generalizations or conclusions drawn from the test results presented herein concerning further samples of the tested device. Modification of the tested sample(s) is prohibited and leads to invalidity of this report.